


```

1 0001 0 MODULE LIB$DEC_OVER (%TITLE'Enable/disable decimal overflow traps'
2 0002 0 IDENT = '1-002' ! file: LIBDECOVE.B32 Edit: SBL1002
3 0003 0 )
4 0004 1 BEGIN
5 0005 1
6 0006 1 ****
7 0007 1 ****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 ****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: Utility Library
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 LIB$DEC_OVER enables or disables decimal overflow
37 0037 1 for the calling procedure activation. The previous setting
38 0038 1 of the enable is returned as a value.
39 0039 1
40 0040 1 ENVIRONMENT: User mode, re-entrant, AST level or not or mixed.
41 0041 1
42 0042 1 AUTHOR: Thomas N. Hastings CREATION DATE: 8-Oct-77
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 Thomas N. Hastings, 8-Oct-77: VERSION 0
47 0047 1 01 - original
48 0048 1 0-2 - REQUIRE LPSECT. TNH 19-Dec-77
49 0049 1 0-3 - Change to STARLET library. DGP 20-Apr-78
50 0050 1 0-4 - Change proper stack frame. TNH 21-Apr-78
51 0051 1 0-5 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
52 0052 1 0-6 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78
53 0053 1 0-7 - Change file name to LIBDECOVE.B32, and change the name of
54 0054 1 the REQUIRE file similarly. JBS 14-NOV-78
55 0055 1 1-001 - Update version number and copyright notice. JBS 16-NOV-78
56 0056 1 1-002 - Use prologue file. SBL 24-June-1983
57 0057 1 --

```

LIB\$DEC_OVER 1-002 Enable/disable decimal overflow traps
: 58 0058 1

E 14
19-Sep-1984 00:48:08
14-Sep-1984 12:38:38 VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBDECOVE.B32;1

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```
60      0059 1 | PROLOGUE FILE:  
61      0060 1 |  
62      0061 1 |  
63      0062 1 |  
64      0063 1 | REQUIRE 'RTLIN:LIBPROLOG';           ! LIB$ definitions  
65      0134 1 |  
66      0135 1 |  
67      0136 1 | TABLE OF CONTENTS:  
68      0137 1 |  
69      0138 1 |  
70      0139 1 | FORWARD ROUTINE  
71      0140 1 |  
72      0141 1 | LIB$DEC_OVER;                  ! Enable/disable decimal overflow  
73      0142 1 |  
74      0143 1 |  
75      0144 1 | MACROS:  
76      0145 1 |  
77      0146 1 |  
78      0147 1 |  
79      0148 1 | EQUATED SYMBOLS:  
80      0149 1 |  
81      0150 1 |  
82      0151 1 |  
83      0152 1 | OWN STORAGE:  
84      0153 1 |  
85      0154 1 |  
86      0155 1 |  
87      0156 1 | EXTERNAL REFERENCES:  
88      0157 1 |  
89      0158 1 |
```

```

91 0159 1 GLOBAL ROUTINE LIB$DEC_OVER ( ! Enable/disable decimal overflow
92 0160 1      NEW_SETTING) ! Adr. of longword containing new setting
93 0161 1      = ! Value is old setting
94 0162 1
95 0163 1 ++ FUNCTIONAL DESCRIPTION:
96 0164 1
97 0165 1 LIB$DEC_OVER enables or disables decimal overflow
98 0166 1 for the calling procedure activation. The previous setting
99 0167 1 of the enable is returned as a value.
100 0168 1
101 0169 1
102 0170 1 FORMAL PARAMETERS:
103 0171 1
104 0172 1      new_setting.rlu.r     Adr. of longword containing new enable setting.
105 0173 1      Bit 0 = 1 is enable, bit 0 = 0 is disable.
106 0174 1
107 0175 1 IMPLICIT INPUTS:
108 0176 1      NONE
109 0177 1
110 0178 1 IMPLICIT OUTPUTS:
111 0179 1
112 0180 1
113 0181 1
114 0182 1
115 0183 1 ROUTINE VALUE:
116 0184 1
117 0185 1      OLD_SETTING.wlu.v     previous contents of SRMSW_PSW[PSWSV_DV]
118 0186 1
119 0187 1
120 0188 1
121 0189 1
122 0190 1
123 0191 1
124 0192 1
125 0193 1
126 0194 1
127 0195 1
128 0196 1
129 0197 1
130 0198 2
131 0199 2
132 0200 2
133 0201 2
134 0202 2
135 0203 2
136 0204 2
137 0205 2
138 0206 2
139 0207 2
140 0208 2
141 0209 2
142 0210 1
-- BEGIN
LOCAL
      OLD_SETTING;      ! store the old SETTING of decimal overflow enable
      BUILTIN
      FP;
      MAP
      NEW_SETTING: REF VECTOR[1, LONG];      ! Scalar call-by-reference
      FP: REF BLOCK[BYTE];
      OLD_SETTING = .FP[$FS$V DV];
      FP[$FS$V DV] = .NEW_SETTING[0];
      RETURN .OLD_SETTING;
END;      !End of LIB$DEC_OVER

```

```

.TITLE LIB$DEC_OVER Enable/disable decimal overflow traps
.IDENT \1-002\
```

04	50	04	AE	01	07	04	0000 0000
						07	EF 00002
						BC	F0 00008
						04	0000F

.PSECT _LIB\$CODE,NOWRT, SHR, PIC,2

.ENTRY LIB\$DEC_OVER, Save nothing
EXTZV #7, #1, 4(FP), OLD_SETTING
INSV @NEW_SETTING, #7, #1, 4(FP)
RET

: 0159
: 0207
: 0208
: 0210

; Routine Size: 16 bytes, Routine Base: _LIB\$CODE + 0000

LIB\$DEC_OVER 1-002 Enable/disable decimal overflow traps

14
14-Sep-1984 00:48:08
14-Sep-1984 12:38:38

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBDECOVE.B32;1

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: 144 0211 1 END
: 145 0212 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	16	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	1	0	581	00:00.7
\$255\$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBDECOVE/OBJ=OBJ\$:LIBDECOVE MSRC\$:LIBDECOVE/UPDATE=(ENH\$:LIBDECOVE)

Size: 16 code + 0 data bytes
Run Time: 00:02.1
Elapsed Time: 00:13.6
Lines/CPU Min: 6144
Lexemes/CPU-Min: 9913
Memory Used: 30 pages
Compilation Complete

0205 AH-BT13A-SE
VAX/VMS V4.0

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